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NOTICE OF ALLOWANCE AND FEE(S) DUE

513

7590

09/07/2010

WENDEROTH, LIND & PONACK, L.L.P. 1030 15th Street, N.W., Suite 400 East Washington, DC 20005-1503 EXAMINER

PARSONS, THOMAS H

ART UNIT PAPER NUMBER

1795

DATE MAILED: 09/07/2010

APPLICATION NO.			ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/552.486	09/26/2006	Tomoaki Ichikawa	2005 1597A	2352	

TITLE OF INVENTION: ADHESIVE-CARRYING POROUS FILM FOR BATTERY SEPARATOR AND USE THEREOF

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	12/07/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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									(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO	RNEY DOCKET NO.	CONFI	RMATION NO.
10/552,486	09/26/2006	•	Tomoaki Ichikawa	a	•		2005_1597A		2352
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APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSUE	E FEE	TOTAL FEE(S) DUE		DATE DUE
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EXAM	IINER	ART UNIT	CLASS-SUBCLASS	;					
PARSONS,	THOMAS H	1795	429-129000						
Change of correspondence address or indication of "Fee Address" (37 FR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(1) the names of u or agents OR, alter (2) the name of a sregistered attorney 2 registered patent	2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.					
PLEASE NOTE: Unl	less an assignee is identi h in 37 CFR 3.11. Comp	A TO BE PRINTED ON The fied below, no assignee eletion of this form is NO	data will appear on th	he pa g an a	tent. If an assigne ssignment.			ocument	has been filed for
lease check the appropr	iate assignee category or	categories (will not be pr	rinted on the patent):		Individual 🖵 Co	rporati	ion or other private gro	up entity	Government
a. The following fee(s): Issue Fee Publication Fee (N Advance Order - 1	ermitted)	4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).							
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/552,486	10/552,486 09/26/2006 Tomoaki		2005_1597A	2352		
513 75	513 7590 09/07/2010			EXAMINER		
WENDEROTH,	LIND & PONACK,	PARSONS,	ГНОМАЅ Н			
1030 15th Street, N	N.W.,		ART UNIT	PAPER NUMBER		
Suite 400 East Washington, DC 2	0005-1503		1795 DATE MAILED: 09/07/2010			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 803 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 803 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)
	10/552,486	ICHIKAWA ET AL.
Notice of Allowability	Examiner	Art Unit
	THOMAS H DADSONS	1705
	THOMAS H. PARSONS	1795
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this a or other appropriate communicat GHTS. This application is subject	application. If not included ion will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>the Amendment filed 1</u>	<u>12 July 2010</u> .	
2. The allowed claim(s) is/are <u>1-3 and 5-8</u> .		
 3. ☐ Acknowledgment is made of a claim for foreign priority un a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 		
2. ☐ Certified copies of the priority documents have		
3. ☐ Copies of the certified copies of the priority documents have	• • •	
International Bureau (PCT Rule 17.2(a)).	saments have been received in th	is national stage application from the
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subminification.	ENT of this application. itted. Note the attached EXAMINE	ER'S AMENDMENT or NOTICE OF
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 CORRECTED DRAWINGS (as "replacement sheets") mus (a) ☐ including changes required by the Notice of Draftspers 		O 948) attached
(a) ☐ including changes required by the Notice of Dranspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date	•	O-940) attached
(b) ☐ including changes required by the attached Examiner's		e Office action of
Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in t		
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT		
Attachment(s)	E Notice of Informa	J. Datont Application
 Notice of References Cited (PTO-892) Dotice of Draftperson's Patent Drawing Review (PTO-948) 	 5. ☐ Notice of Informa 6. ☐ Interview Summa 	
 Information Disclosure Statements (PTO/SB/08), 	o. ☐ Interview Summa Paper No./Mail I 7. ⊠ Examiner's Amer	Date
Paper No./Mail Date <u>05/21/2010</u> 4. Examiner's Comment Regarding Requirement for Deposit		ment of Reasons for Allowance
of Biological Material	9. ☐ Other	

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Response to Amendment

This is in response to the Amendment filed 12 July 29010.

(Previous) DETAILED ACTION

Specification

- 1. The objection to the specification has been **withdrawn** in view of Applicants' Amendment.
- 2. The objections to the disclosure because of minor informalities have been **withdrawn** in view of Applicants' Amendment.

Claim Objections

3. The objections of claim 8-10 under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim cannot depend from any other multiple dependent claim. See MPEP § 608.01(n) have been **withdrawn** in view of Applicants' Amendment.

Claim Rejections - 35 USC § 103

4. The rejection of claims 1-10 under 35 U.S.C. 103(a) as being unpatentable over Satsuma et al. (US 2003/0215704) in view of JP 2003-119313 (hereafter JP '313), and further in view of Kobayashi et al. (US 6,802,925) have been **withdrawn** in view of Applicants' Amendment.

Response to Arguments

5. Applicants' arguments, see page 8, line 19 through page 13, last line, filed 12 July 2010, with respect to claims 1-3 and 5-8 have been fully considered and are persuasive. The rejections of the claims have been withdrawn.

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REASONS FOR ALLOWANCE

6. The following is an examiner's statement of reasons for allowance:

Claims 1-3 and 5-8 are allowable because of the recitation in claim 1 of a partially crosslinked adhesive carried on the substrate porous film, and having a gel fraction in a range of 5 to 80%, the partially crosslinked adhesive being prepared by carrying on the substrate porous film a reactive polymer having a functional group capable of reacting with a polyfunctional isocyanate group therein with and, a polyfunctional isocyanate in such a quantity sufficient for the reactive polymer to be partially crosslinked, and then by reacting the reactive polymer with the polyfunctional isocyanate.

Specifically, claims 1-3 and 5-8 are allowable the prior art references of record do not teach or suggest an adhesive-carrying porous film comprising

a substrate porous film such that when a probe of a probe penetrating thermomechanical analyzer, said probe having a diameter of 1 mm, is placed on the porous film under a load of 70 g to measure a thickness thereof while heating the porous film from room temperature at a rate of 2 °C/minute, a temperature at which the thickness of the porous film decreases to a half of the thickness of the porous film when the probe was initially placed thereon is 200 °C or more; and

a partially crosslinked adhesive carried on the substrate porous film, and having a gel fraction in a range of 5 to 80%, the partially crosslinked adhesive being prepared by carrying on the substrate porous film a reactive polymer having a functional group capable of reacting with a polyfunctional isocyanate group therein with and, a polyfunctional isocyanate in such a

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quantity sufficient for the reactive polymer to be partially crosslinked, and then by reacting the reactive polymer with the polyfunctional isocyanate.

The prior art references of record do not teach or suggest the substrate porous film in combination with the partially crosslinked adhesive carried on the porous substrate film.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Examiner Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to THOMAS H. PARSONS whose telephone number is (571)272-1290. The examiner can normally be reached on M-F (7:00-3:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Pat Ryan can be reached on (571) 272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

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system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Thomas H Parsons/ Examiner, Art Unit 1795

/Patrick Joseph Ryan/ Supervisory Patent Examiner, Art Unit 1795